

CONCUSSION MANAGEMENT

DEFINITION OF CONCUSSION

Temporary change in mental state as a result of trauma (may be blow to head, face or jaw; may result from whiplash effect to neck) **NOT NECESSARILY WITH LOSS OF CONSCIOUSNESS**

C-SPINE PRECAUTIONS AIRWAY, BREATHING, CIRCULATION ASSESS LEVEL OF CONSCIOUSNESS



MANAGEMENT OF ATHLETE WITH CONCUSSION

When an athlete shows any signs or symptoms of concussion:

- 1. No return to current game or practice the day of injury
- Medical evaluation necessary including full SCAT3 assessment on the sidelines or medical facility
- 3. No aspirin or anti-inflammatory for pain; acetaminophen ok
- 4. No alcohol or sleeping pills\
- 5. Do not leave alone regular monitoring for deterioration is essential in first few hours.
- 6. To Emergency Department if worsening symptoms or if new symptoms develop
- 7. Return-to-play must follow a medically supervised, stepwise process (No training until medically cleared)

RETURN-TO-PLAY

Proceed to next step only when asymptomatic for 24 hours; if symptoms recur, return to step 1 and seek reevaluation by physician

Step 1: No activity; complete physical and mental rest (no videogames; no texting)

Step 2: Light exercise (walking; stationary bike)

Step 3: Sport-specific activity (e.g. skating)

Step 4: "On-field" practice without body contact / light resistance training

Step 5: "On-field" practice with body contact (once cleared by medical doctor)

Step 6: Game play

"When in doubt, sit them out!"

CONCUSSION SCREENING <u> 1. SIGNS AND SYMPTOMS OF CONCUSSION:</u>

Headache / pressure in head Dizziness Neck pain Feeling dazed / "in a fog" Feeling "dinged" or stunned / "bell runa" Feeling "slowed down" Sleepiness Seeing stars Double or blurred vision Sensitivity to light or noise Ringing in ears Nausea / vomiting Confusion Disorientation (unaware of time / date / place)

Poor balance Poor concentration / easily distracted Slow or slurred speech Slow responses to questions Slow to follow instructions Vacant stare / glassy eyed Decreased playing ability Unusual / inappropriate emotions Personality changes / irritability Inappropriate behaviour (skate/run wrong direction) Loss of consciousness Memory deficits / amnesia Seizure / convulsion

*Presence of any of the above symptoms may suggest concussion

2. MENTAL STATUS TESTING:

•What venue are we at today? (which gym / stadium / rink is this?)

- •Which half (quarter / period / round) is this?
- •Who scored last in this match (game / fight)?
- •What team did you play last week / game (Who was your opponent in the last match)?
- Did you / your team win the last match / game?

Failure to answer all questions correctly may suggest concussion

3. BALANCE TESTING:

•Tandem Stance: (Requires stop-watch)

•Stand heel-to-toe with non-dominant foot in back (weight evenly distributed)

•Then balance for 20 seconds with hands on hips / eyes closed

More than 5 errors => may suggest concussion:

E.g.

Lift hands off hips Open eyes Lift forefoot or heel Step / stumble / fall

Remain out of start position more than 5 seconds

IF CONCUSSION SUSPECTED, REMOVE FROM PLAY AND ASSESS FULLY WITH SCAT 3 CONCUSSION ASSESSMENT TOOL http://bjsm.bmj.com/content/47/5/259.full.pdf





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